

Title (en)

FLAME FINDING WITH AUTOMATED IMAGE ANALYSIS

Title (de)

FLAMMENAUFFINDUNG MIT AUTOMATISCHER BILDANALYSE

Title (fr)

RECHERCHE DE FLAMME AVEC ANALYSE D'IMAGE AUTOMATISÉE

Publication

EP 4013518 A1 20220622 (EN)

Application

EP 20855486 A 20200814

Priority

- US 201962887860 P 20190816
- US 202016850800 A 20200416
- US 2020046542 W 20200814

Abstract (en)

[origin: US2021049789A1] identifies an optical image slice based on analysis of the optical images and the location of the candidate region; and determines a likelihood of the presence of flame in the scene based on analysis of the optical image slice. Analysis of the infrared images includes detecting a high-temperature image region that exceeds a threshold temperature; detecting a turbulent motion image region; and determining whether the turbulent motion region is within a specified proximity of or overlaps with the high-temperature region. The optical image slice may be provided to a trained neural network, which returns a degree-of-confidence value that indicates whether flame is present.

IPC 8 full level

A62C 3/02 (2006.01); **G03B 19/00** (2021.01); **G06N 3/02** (2006.01); **G06T 7/20** (2017.01); **G06T 7/292** (2017.01); **G06V 10/25** (2022.01); **H04N 5/33** (2006.01); **H04N 7/18** (2006.01)

CPC (source: EP US)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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US 202016850800 A 20200416; AU 2020334968 A 20200814; CA 3147995 A 20200814; EP 20855486 A 20200814; US 2020046542 W 20200814